

Sales Trend Analysis Using Aggregations

SQL File 5*

```
1 * create database task_6;  
2 * use task_6;  
3 * select * from sales_data;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows: |

InvCustomer_id	Age	Gender	Revenue_Total	N_Purchases	Purchase_DATE	Purchase_VALUE	Pay_Method	Time_Spent	Browser	Newsletter	Voucher
504308	53	0	45.3	2	22.06.21	24.915	1	885	0	0	0
504309	18	1	36.2	3	10.12.21	2.896	2	656	0	0	1
504310	52	1	10.6	1	14.03.21	10.6	0	761	0	1	0
504311	29	0	54.1	5	25.10.21	43.28	1	906	0	1	0
504312	21	1	56.9	1	14.09.21	56.9	1	605	0	1	0
504313	55	0	13.7	6	14.05.21	12.467	1	364	1	0	0

sales_data1 x

Read Only

SQL File 5*

```
1 * create database task_6;  
2 * use task_6;  
3 * select * from sales_data;  
4  
5 * select sum(Revenue_Total) from sales_data;  
6
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

sum(Revenue_Total)
1824716.2

```

1 * create database task_6;
2 * use task_6;
3 * select * from sales_data;
4
5 * select sum(Revenue_Total) from sales_data;
6
7 * select str_to_date(Purchase_DATE, '%d.%m.%y') as Order_date from sales_data;
8
9 * select
10 extract( month from str_to_date(Purchase_DATE, '%d.%m.%y')) as monthly_revenue ,
11 sum(Revenue_Total)as Total_sales
12 from sales_data
13 group by monthly_revenue
14 order by monthly_revenue;

```

Result Grid

	monthly_revenue	Total_sales
1	159971.40000000004	
2	138002.900000000037	
3	153033.800000000066	
4	150651.5	
5	154229.40000000008	
6	149994.899999999994	

Result 6 x

Output

Action Output

#	Time	Action	Message
29	17:07:13	select str_to_date(Purchase_DATE, '%d.%m.%y') as Order_date from sales_data	65796 row(s) returned
30	17:11:38	select extract(month from str_to_date(Purchase_DATE, '%d.%m.%y')) as monthly_revenue , sum(Revenue_Tot...	12 row(s) returned

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1 * create database task_6;
2 * use task_6;
3 * select * from sales_data;
4
5 * select sum(Revenue_Total) from sales_data;
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7 * select str_to_date(Purchase_DATE, '%d.%m.%y') as Order_date from sales_data;
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9 * select
10 extract( month from str_to_date(Purchase_DATE, '%d.%m.%y')) as monthly_revenue ,
11 sum(Revenue_Total)as Total_sales
12 from sales_data
13 group by monthly_revenue
14 order by Total_sales;
15

```

Result Grid

	monthly_revenue	Total_sales
2	138002.900000000037	
11	147956.999999999953	
6	149994.899999999994	
4	150651.5	
9	151553.29999999999	
7	151661.299999999987	

SQL File 5*

```

3
4 • select * from sales_data;
5 • select sum(Revenue_Total) from sales_data;
6
7 • select str_to_date(Purchase_DATE, '%d.%m.%y') as Order_date from sales_data;
8
9 • select
10   extract( month from str_to_date(Purchase_DATE, '%d.%m.%y')) as monthly_revenue ,
11   sum(Revenue_Total)as Total_sales
12   from sales_data
13   group by monthly_revenue
14   order by Total_sales;
15
16 • select count(distinct Customer_id) as total_orders from sales_data;
17

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	total_orders
▶	65796

SQL File 5*

```

11   sum(Revenue_Total)as Total_sales
12   from sales_data
13   group by monthly_revenue
14   order by Total_sales;
15
16 • select count(distinct Customer_id) as total_orders from sales_data;
17
18 • select
19   extract( month from str_to_date(Purchase_DATE, '%d.%m.%y')) as monthly_revenue ,
20   sum(Revenue_Total)as Total_sales,
21   count(distinct Customer_id) as total_orders
22   from sales_data
23   group by monthly_revenue
24   order by Total_sales;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	monthly_revenue	Total_sales	total_orders
▶	2	138002.90000000034	4978
	11	147956.99999999998	5364
	6	149994.899999999973	5421
	4	150651.50000000035	5433
	9	151553.299999999973	5505
	7	151661.30000000002	5430

Task 6

```

24 order by Total_sales
25 limit 8;
26
27 • SELECT
28     EXTRACT(YEAR FROM STR_TO_DATE(Purchase_DATE, '%d.%m.%y')) AS PurchaseYear,
29     EXTRACT(MONTH FROM STR_TO_DATE(Purchase_DATE, '%d.%m.%y')) AS PurchaseMonth,
30     SUM(Revenue_Total) AS Total_Revenue,
31     COUNT(DISTINCT Customer_id) AS Total_Orders
32 FROM sales_data
33 WHERE
34     STR_TO_DATE(Purchase_DATE, '%d.%m.%y') BETWEEN '2021-07-01' AND '2021-12-31'
35 GROUP BY PurchaseYear, PurchaseMonth
36 ORDER BY PurchaseYear, PurchaseMonth;
37

```

Result Grid

	PurchaseYear	PurchaseMonth	Total_Revenue	Total_Orders
▶	2021	7	151661.3	5430
	2021	8	154860.299999999973	5590
	2021	9	151553.299999999923	5505
	2021	10	155362.399999999997	5611
	2021	11	147956.999999999942	5364
	2021	12	157438.00000000001	5684

P

Task 6

```

14 order by Total_sales;
15
16 • select count(distinct Customer_id) as total_orders from sales_data;
17
18 • select
19     extract(month from str_to_date(Purchase_DATE, '%d.%m.%y')) as month,
20     sum(Revenue_Total) as Total_sales,
21     count(distinct Customer_id) as total_orders
22 from sales_data
23 group by month
24 order by Total_sales
25 limit 8;
26
27 • SELECT
28     EXTRACT(YEAR FROM STR_TO_DATE(Purchase_DATE, '%d.%m.%y')) AS PurchaseYear,

```

Result Grid

	month	Total_sales	total_orders
▶	2	138002.900000000034	4978
	11	147956.999999999998	5364
	6	149994.899999999973	5421
	4	150651.500000000035	5433
	9	151553.299999999973	5505
	7	151661.300000000002	5430
	3	153033.800000000066	5453
	12	157438.000000000001	5684